

FIG. 1

Search Criteria

Fill in at least one field. Fill more to narrow your search.

Need high speed? Try <u>Fast Search</u>.

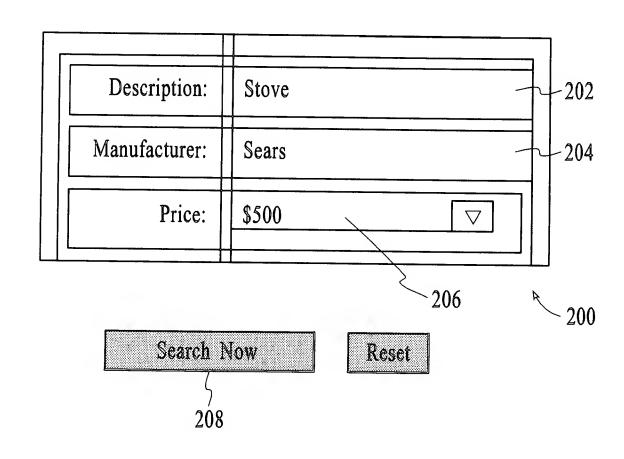


FIG. 2

<u>300</u>

302 Select

308 T1.x, T2.y

<u>304</u> From

310 T1, T2

306 Where

<u>312</u>

FIG. 3

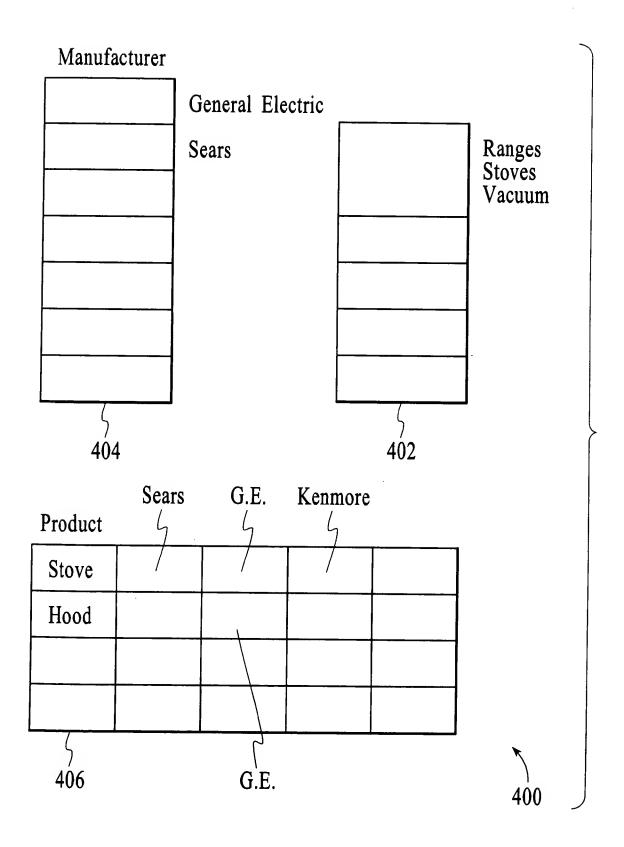
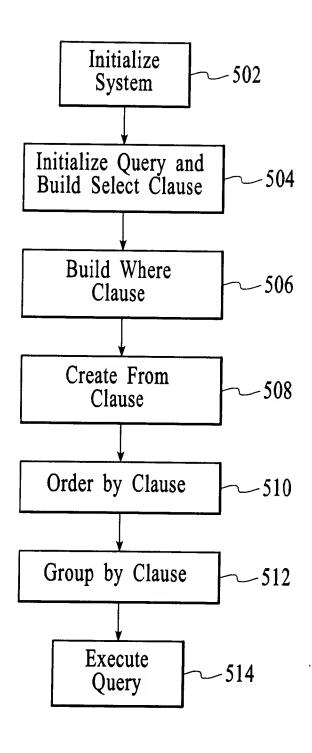


FIG. 4



<u>500</u>

FIG. 5



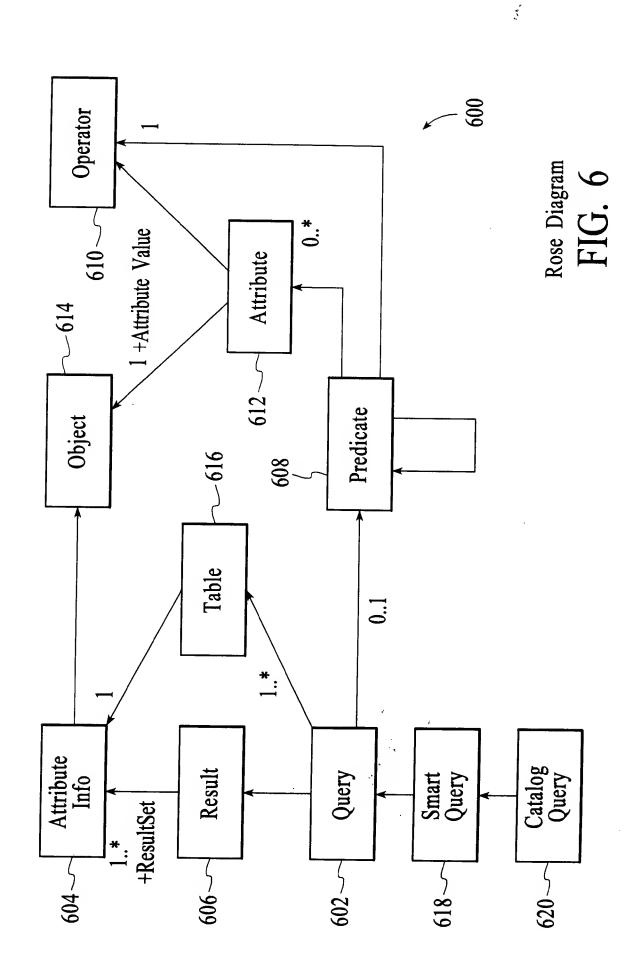
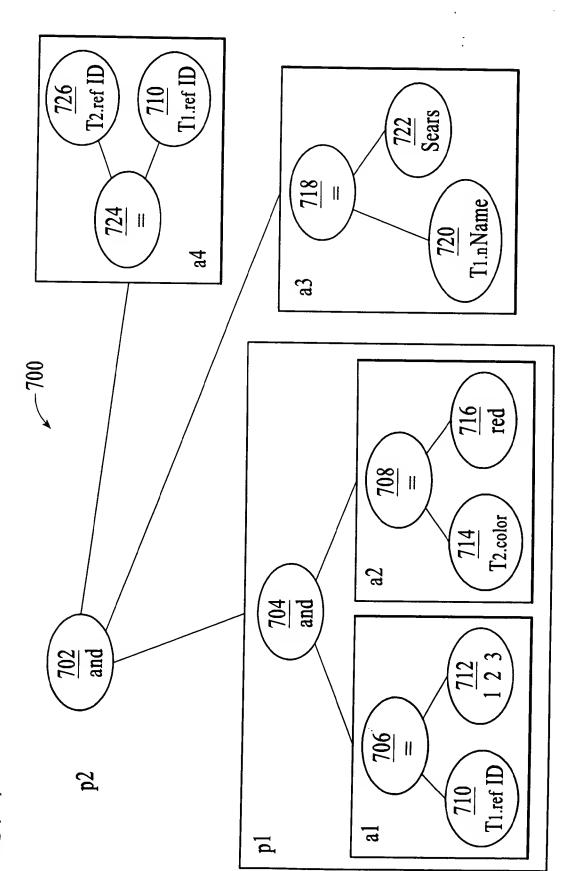


FIG. 7



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802

// construct the simple search conditions
Attribute attr1 = new Attribute (CatRefldAttributeInfo, Operator.equal, "123");
Attribute attr2 = new Attribute (ColourttributeInfo, Operator.equal, "red");
Attribute attr3 = new Attribute (ManufactureAttributeInfo, Operator.equal, "Sears");
Attribute attr4 = new
Attribute (CatRefldAttributeInfo,Operator,equal,DescRefldAttributeInfo,);

// compose composite search conditions
Predicate p1 = new Predicate (Operator.and, {attr1, attr2});
Predicate p2 = new Predicate (Operator.and, {p1, attr3, attr4});

// execute the query
Query q = new Query ()
q.setResultSet ({ CatRefldAttributeInfo, ...}) // result set contains catalog entryld
q.setPredicate (p2);
result = q.execute ()
```

800

FIG. 8

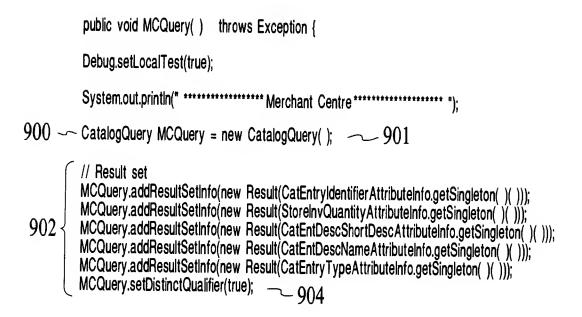


FIG. 9A(i)

```
// Predicate set
           // Part I
          Predicate p11 = new Predicate ( ); \sim 908a
          p11.setOperator (Operator.or);
          Attribute a111 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
          "CATEGORY X");
          a111.setUppercaseQualifier(true);
 910a <
          p11.addOperand (a111);
          Attribute a112 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
          "CATEGORY10"
          a112.setUppercaseQualifier(true);
         p11.addOperand (a112);
          Predicate p12 = new Predicate ( ); \sim 908a
          p12.setOperator (Operator.and);
         p12.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton( ), Operator.gt, "0.0"));
         p12.addOperand (new Attribute (StorelnvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
         p12.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         p12.addOperand (p11);
         Predicate p13 = new Predicate (); \sim 908a
         p13.setOperator (Operator.and);
         p13.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton( ), Operator.gt, "0.0"));
         p13.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910a opi3.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         Attribute a13 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leflike,
         "CATEGORY5");
         a13.setUppercaseQualifier(true);
         p13.addOperand (a13);
         Predicate p14 = new Predicate (); — 908a
         p14.setOperator (Operator.or);
910a ₹
         p14.addOperand (p12);
        p14.addOperand (p13);
```

FIG. 9A(ii)

n.

```
// Part II
           Predicate p2 = new Predicate ();
                                                \sim 908b
           p21.setOperator (Operator.or);
           Attribute a211 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
           "CATEGORY Z");
           a211.setUppercaseQualifier(true);
 910b <
          p21.addOperand (a211);
          Attribute a212 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
          "CATEGORY9"
          a212.setUppercaseQualifier(true);
          p21.addOperand (a212):
          Predicate p22 = new Predicate (); 908b
          p22.setOperator (Operator.and);
          p22.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910b <
          p22.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
          p22.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
          p22.addOperand (p21);
         Predicate p23 = new Predicate ( ); \sim 908b
          p23.setOperator (Operator.and);
          p23.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton( ), Operator.gt, "0.0"));
         p23.addOperand (new Attribute (StorelnvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910b | p23.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
         Attribute a23 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leflike,
          "CATEGORY4"):
         a23.setUppercaseQualifier(true);
         p23.addOperand (a23);
         Predicate p24 = new Predicate ();
         p24.setOperator (Operator.or);
         p24.addOperand (p22);
910b ₹
         p24.addOperand (p23);
         p24.setNotQualifier(true);
         System.out.println(p24.toString());
```

FIG. 9A(iii)

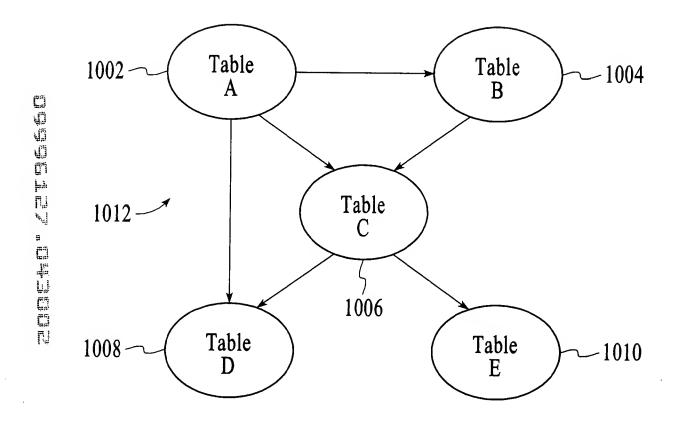
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```
// Part IV -- Join
 Predicate p4 = new Predicate ( ); \sim 912
 p4.setOperator (Operator.and);
 p4.addOperand (p14);
 p4.addOperand (p24);
 p4.addOperand (new Attribute (StoreCEntStoreIdentifierAttributeInfo.getSingleton(), ~914
 Operator.eq, "2"));
 p4.addOperand (new Attribute (UsersIdentifierAttributeInfo.getSingleton(), Operator.eq,
 //p4.addOperand (p33);
MCQuery.setPredicate(p4); — 916
 // Join
System.out.println("Auto Join: ");
MCQuery.printJointRelationships();
// Resolve source tables
MCQuery.resolveSourceTables( ); \sim 918
// ORDER, GROUP and HAVING set
MCQuery.addResultOrder(CatEntryIdentifierAttributeInfo.getSingleton(),
Operator.desc); — 920
System.out.println("MC Query: ");
System.out.println(MCQuery.toString());
com.ibm.commerce.base.objects.Cursor cursor = new
com.ibm.commerce.base.objects.Cursor();
java.util.Vector v = MCQuery.execute(cursor); ____922
System.out.println("MC Query first 10 Result: ")
System.out.println(v);
cursor.increment();
v = MCQuery.execute(cursor); ____922
System.out.println("MC Query next 10 Result: ");
System.println(v);
```

FIG. 9A(iv)

```
public void setPredicate(Predicate aPredicate) throws Exception {
           Predicate additional P = additional Predicate( ); \sim 924
           if (additionalP != null) {
             Predicate p = new Predicate( );
p.setOperator(Operator.and);
926
             p.addOperand(aPredicate);
             p.addOperand(additionalP);
             setTableJointPredicate(p);
           else
             setTableJointPredicate(aPredicate);
           private void setTablejointPredicate(Predicate aPredicate) throws Exception {
           Predicate jointP = resolveJointPredicate(aPredicate);
           if (jointP != null) {
             Predicate p = new Predicate();
             p.setOperator(Operator.and);
             p.addOperand(aPredicate);
             p.addOperand(jointP);
             super.setPredicate(p);
                                                \sim 930
          else
             super.setPredicate(aPredicate);
```

FIG. 9B



<u>1000</u>

FIG. 10

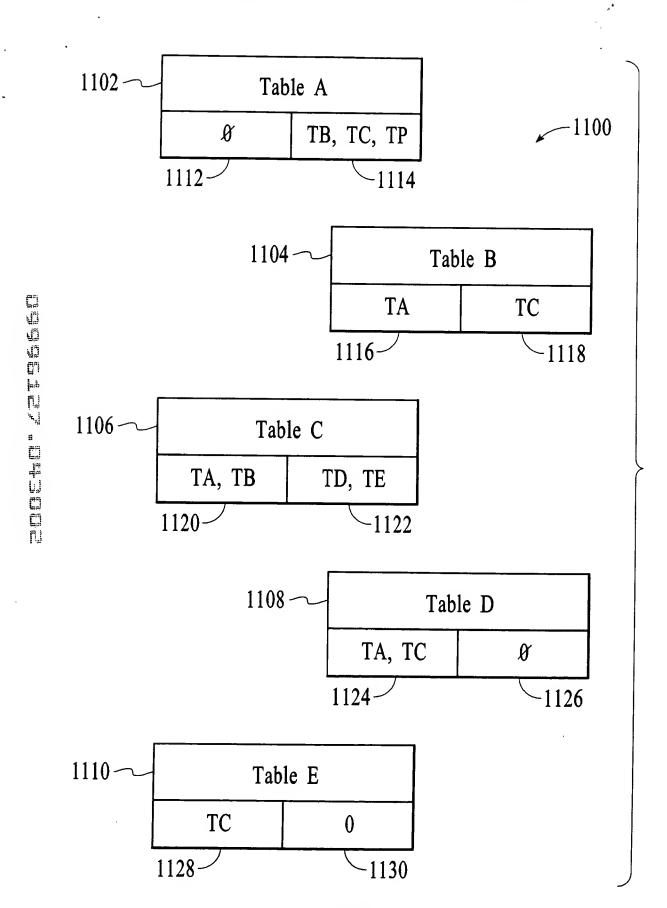


FIG. 11

